

Spartech Royalite R61M Low Smoke Resin

Category : Polymer , Thermoplastic

Material Notes:

Data provided by the manufacturer. Formulated to meet smoke and fire specifications recommended by the FTA, this is ideally suited for mass transit applications such as seat backs, overhead storage bins, trays, side panels and window surrounds.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Royalite-R61M-Low-Smoke-Resin.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Melt Flow	3.9 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.9 g/10 min @Load 11.0 lb, Temperature 392 Â°F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength, Yield	39.0 MPa	5660 psi	ASTM D638
Modulus of Elasticity	2.10 GPa	305 ksi	ASTM D638
Flexural Yield Strength	63.0 MPa	9140 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256
	0.400 J/cm @Temperature -20.0 Â°C	0.749 ft-lb/in @Temperature -4.00 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	135 Âµm/m-Â°C @Temperature 20.0 Â°C	75.0 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	80.0 Â°C	176 Â°F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Â°C	174 Â°F	Annealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	0.031 in. UL 94
Oxygen Index	43.2 %	43.2 %	ASTM D2863

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